

F. No. J-11011/976/2008- IA II (I)  
**Government of India**  
**Ministry of Environment and Forests**  
**(I.A. Division)**

**Paryavaran Bhawan**  
**CGO Complex, Lodhi Road**  
**New Delhi – 110 003**  
**E-mail : [plahujarai@yahoo.com](mailto:plahujarai@yahoo.com)**  
**Telefax: 011 – 2436 3973**  
**Dated: August 24, 2009**

To,

**M/s IOL Chemicals and Pharmaceuticals limited**  
Village: Dhaula, Mansa Road,  
Tehsil-Barnala, Dist.: Sangrur  
Punjab- 148101

**E-mail : [vijaysingla@iolcp.com](mailto:vijaysingla@iolcp.com) : [vijaysingla\\_75@yahoo.co.uk](mailto:vijaysingla_75@yahoo.co.uk)**

**Sub: Expansion of existing and addition of new products at Village: Dhaula, Mansa Road, Tehsil-Barnala, Dist.: Sangrur, Punjab- 148101 by M/s IOL Chemicals and Pharmaceuticals Limited – reg. E C**

**Sir,**

This has reference to your letter no. IOLCP/MOEF/SP-2I dated 28.4.2009 along with a copy of EIA/EMP report and subsequent communication dated 3.7.2009 submitting additional information and seeking environmental clearance under the provisions of EIA Notification, 2006.

2. The Ministry of Environment and Forests has examined your application. It is noted M/s IOL Chemicals and Pharmaceuticals Limited have proposed for expansion of existing and addition of new products in District Sangrur in Punjab. The proposed expansion will be carried with in the existing unit having land area of 40 acres, of which expansion for co-generation plant will be in 2 acres, chemical unit will be in 2.89 acres and green belt will be developed in 22 acres of the total land area and no additional land will be required. No National Park/Wildlife Sanctuary and eco-sensitive areas etc are located within 10 km radius of the plant. Cost of the project will be Rs. 210.00 Crores. An amount of Rs. 655.00 lacs has been earmarked for environmental protection measures.

3. Details of products along with their production capacity are given below:

<b>Sr. No.</b>	<b>Name of Product</b>	<b>Existing (TPD)</b>	<b>Proposed (TPD)</b>	<b>Total (TPD)</b>
01.	Acetic Acid	150	150	300
02.	Ethyl Acetate	100	50	150
03.	Acetic Anhydride	60	10	70
04	Ibuprofen	7	13	20

05	Monochloro acetic acid	10	30	40
06	Acetyl chloride	15	17	32
07	Iso butyl benzene	Nil	40	40
08	Rabiperazole	Nil	2	2
09	Diclofenac sodium	Nil	3.5	3.5
	<b>Co-generation Power Plant</b>	4 MW	13 MW	17 MW

4. It is noted that water requirement will increase from 485m<sup>3</sup>/d to 930m<sup>3</sup>/d. About 155m<sup>3</sup>/d of water from the MEE and permeates from the RO will be recycled. Fresh water requirement of 775m<sup>3</sup>/day will be met through the ground water source. The wastewater generation will be 670 m<sup>3</sup>/day. The effluent will be segregated into high TDS and low TDS stream. High TDS effluent (95m<sup>3</sup>/d) will be treated in multiple effect evaporator. The low TDS effluent (545m<sup>3</sup>/d) after primary, secondary and tertiary treatment and complying to the prescribed standards will be used for land irrigation within the plant premises. No effluent will be discharged outside the plant premises. The power requirement of 18293 KW will be met through the 17 MW cogeneration power plant. Fuel for boilers will be husk and coal. Fuel for oil fired furnace will be FO (200 lts/hr.). Fuel for thermopack and DG set will be HSD. The DG sets have inbuilt acoustic enclosures to control the noise pollution. The process emissions in the form of acid mist will be controlled by scrubbers. To control the particulate emissions from 80TPH boiler, ESP will be installed and emissions will be dispersed through stack of 60 m height.

5. Solid waste generation will be in the form of ETP Sludge and distillation residue which will be disposed at HWM site at Nimbua, Punjab. Used oil will be sold to authorized recyclers. Boiler ash will be given to brick manufacturers & dumped in low lying area with the consent of local panchayat/bodies.

6. All the Chemical manufacturing units are listed at serial no. 5(f) of schedule of EIA Notification, 2006 and categorized under A or B category depending upon the location of the plant outside or inside the notified industrial area. This is 'A' category project as it is located outside the industrial area.

7. The proposal was considered in the 95<sup>th</sup> EAC (I) meeting held during 15<sup>th</sup> – 17<sup>th</sup> June, 2009. The EAC (I) sought additional information. The information provided by the project proponent was reconsidered by the Expert Appraisal Committee-2 (I) in its 1st meeting held on 24-25<sup>th</sup> July, 2009. The Committee recommended the proposal for grant of environmental clearance subject to stipulation of specific conditions. Public hearing has been exempted as per para 7(ii) of Environmental Impact Assessment Notification, 2006.

8. Based on the information submitted by the project proponent, the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification, dated 14<sup>th</sup> September 2006 subject to the compliance of the following Specific and General Conditions:

**A. SPECIFIC CONDITIONS:**

- i. The effluent shall be segregated into low TDS and high TDS streams. The high TDS stream (95m<sup>3</sup>/d) shall be evaporated in the multiple effect evaporators. The low TDS stream (545m<sup>3</sup>/d) shall be given primary, secondary and tertiary treatment. The treated effluent after complying with the prescribed standards shall be used for land irrigation within the plant premises. The ground water quality monitoring shall be carried regularly around the irrigated land area and data submitted to the RO of the Ministry/CPCB/State Pollution Control Board.
- ii. The process emissions in the form of acid mist shall be scrubbed with scrubber. The emissions shall conform to the prescribed standards. The particulate emissions from the 80TPH boiler shall be controlled by installation of ESP and emissions shall be dispersed through stack of adequate height as per CPCB /State Pollution Control Board standards. The gaseous emissions from the DG set shall be dispersed through stack and height of the stack shall be provided as per the CPCB standards.
- iii. The company shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and the State Pollution Control Board. The levels of SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> and VOC (ambient levels) and ground water quality data regarding pH, BOD, COD and emissions from the stacks shall be monitored and displayed at a convenient location near the main gate of the company and at important public places.
- iv. The Company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans boundary Movement) Rules, 2008 for management of hazardous wastes and prior permission from GPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. The concerned company shall undertake measures for fire fighting facilities in case of emergency.
- v. The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000. All Transportation of Hazardous Chemicals shall be as *per* the MVA, 1989.
- vi. Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm. Solvent transfer shall be by pumps.

- vii. The company shall undertake following Waste Minimization measures :-
- a. Metering and control of quantities of active ingredients to minimize waste.
  - b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
  - c. Use of automated filling to minimize spillage.
  - d. Use of "Close Feed" system into batch reactors.
  - e. Venting equipment through vapour recovery system.
  - f. Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- viii. For control of fugitive emissions following steps shall be followed :
1. Closed handling system shall be provided for chemicals.
  2. Reflux condenser shall provided over reactor.
  3. System of leak detection and repair of pump/pipeline based on preventive maintenance.
  4. The acids shall be taken from storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water.
- ix. Solvent management shall be as follows :
- a. Reactor shall be connected to chilled brine condenser system
  - b. Reactor and solvent handling pump shall have mechanical seals to prevent leakages.
  - c. The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery
  - d. Solvents shall be stored in a separate space specified with all safety measures.
  - e. Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.
  - f. Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.
- x. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits imposed by PPCB.
- xi. During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic waste and storm drains.

- xii. The Company shall harvest surface as well as rainwater from the rooftops of the buildings and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.
- xiii. The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
- xiv. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- xv. Usage of PPEs by all employees/ workers shall be ensured.
- xvi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- xvii. Green belt shall be developed in 22 acres of the plant area. Selection of plant species shall be as per the CPCB guidelines.
- xviii. The company shall undertake rainwater harvesting measures to recharge the ground water as well as reduced consumption of water.
- xix. The adequate financial provisions shall be made in the budget of the project for implementation of the above suggested environmental safeguards. Fund so earmarked shall not be diverted for any other purposes.
- xx. The company shall comply with the recommendations made in the EIA/EMP/Risk assessment report and public hearing.
- xxi. Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.

**B. GENERAL CONDITIONS:**

- i. The project authorities shall strictly adhere to the stipulations made by the State Pollution Control Board.

- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- iii. At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.
- v. The gaseous emissions (NO<sub>x</sub>, SO<sub>2</sub> and SPM ) and Particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Stack monitoring for SO<sub>2</sub>, NO<sub>x</sub> and SPM shall be carried.
- vi. The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the up wind and downwind direction as well as where maximum ground level concentrations are anticipated.
- vii. Dedicated scrubbers and stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided to control the emissions from various vents. The scrubbed water shall be sent to ETP for further treatment.
- viii. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- ix. The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the project report submitted to the Ministry. All the recommendations made in respect of environmental management and risk mitigation measures relating to the project shall be implemented.

- x. The company will undertake all relevant measures for improving the Socio-economic conditions of the surrounding area. CSR activities will be undertaken by involving local villages and administration
- xi. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- xii. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- xiii. The project authorities shall earmark adequate funds to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
- xiv. The implementation of the project vis-a-vis environmental action plans shall be monitored by the concerned Regional Office of the Ministry/SPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies and shall be posted on the website of the Company.
- xv. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/ representations, if any , were received while processing the proposal.
- xvi. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated E C conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the State Pollution Control Board.
- xvii. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.

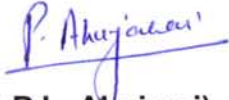
- xviii. The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <http://envfor.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
- xix. The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.

9. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

10. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.

11. Any appeal against this environmental clearance shall lie with the National Appellate Authority, if preferred, within a period of 30 days as prescribed under section 11 of the National Environment Appellate Authority Act, 1997.

12. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986 Hazardous Wastes (Management and Handling) Rules, 2003/ 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

  
(Dr.P.L. Ahujarai)  
Director

**Copy to:**

1. The Secretary, Deptt. Of Environment, Government of Punjab, Secretariat, Chandigarh.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
3. Chairman, Punjab Pollution Control Board, Vatavaran Bhawan, Nabha Road, Patiala.
4. Chief Conservator of Forests, Regional Office (NZ), Bays No. 24-25, Sector 31-A, Dakshin Marg, Chandigarh – 160 047
5. Monitoring Cell, Ministry of Environment & Forests, New Delhi.
6. Monitoring file.
7. Guard file.
8. Record file.

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(Dr. P. L. Ahujarai)  
Director